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(54) METHOD FOR TREATING SURFACE OF CARBON FIBER

(57) Abstract:

PURPOSE: To enhance the hydrophilicity by efficiently subjecting carbon fiber to the oxidation treatment under mild conditions.

CONSTITUTION: The surface of carbon fiber is treated with a solution of an organic peroxide in an organic solvent and the resultant carbon fiber is dried and

heat-treated to provide the objective carbon fiber having high surface activity and hydrophilicity. For example, dicumyl peroxide or 1,1-bis(t-butylperoxy)-3,3,5-trimethylcyclohexane is included in the organic peroxide. The heating temperature is about 90-140°C. The obtained carbon fiber can be used as a reinforcing material for various matrices such as a plastics or a concrete.

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